Internal al Application No
PCT/IB2004/003907

		PCT/1B200	04/003907
A. CLASSI	FICATION OF SUBJECT MATTER C01B31/28 A61K51/00		· · · · · · · · · · · · · · · · · · ·
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	Library Debat Classification (IDC) as to both national classification	sion and IDC	
	o International Patent Classification (IPC) or to both national classifica SEARCHED	tion and IPC	
	cumentation searched (classification system followed by classification	n symbols)	
	C01B		
Documental	lion searched other than minimum documentation to the extent that su	ich documents are included in the fields se	earched
Electronic d	ata base consulted during the international search (name of data bas	e and, where practical, search terms used	)
EPO-In	ternal, WPI Data, PAJ, INSPEC, COMPE	NDEX, CHEM ABS Data	
C. DOCUME	ENTS CONSIDERED TO BE RELEVANT		
Category °	Citation of document, with indication, where appropriate, of the rele	vant passages	Relevant to claim No.
Х	BRINKMAN, G. A. ET AL: "Preparat	ion of	1,3-7
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	AND ISOTOPES CODEN: IJARAY; ISSN:		
	0020-708X,   vol. 29, no. 11, 1978, pages 701-	.702	
	XP008049781	702,	
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Υ			2
Х	PATENT ABSTRACTS OF JAPAN		8,9
	vol. 1998, no. 10, 31 August 1998 (1998-08-31)		
	& JP 10 135233 A (SONY CORP),		
	22 May 1998 (1998-05-22) abstract		
		,	
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X Funt	ner documents are listed in the continuation of box C.	X Patent family members are listed in	n annex.
'		"T" later document published after the inte or priority date and not in conflict with	rnational filing date
consid	ent defining the general state of the art which is not lered to be of particular relevance	cited to understand the principle or the invention	eory underlying the
filing d	ate	"X" document of particular relevance; the c cannot be considered novel or cannot	be considered to
which	nt which may throw doubts on priority claim(s) or is cited to establish the publication date of another n or other special reason (as specified)	cument is taken alone laimed invention	
	ent referring to an oral disclosure, use, exhibition or	cannot be considered to involve an in- document is combined with one or mo ments, such combination being obvious	ore other such docu-
"P" docume	ent published prior to the international filing date but	in the art.  "&" document member of the same patent	
	actual completion of the international search	Date of mailing of the international sea	
5	September 2005	<b>2</b> 3. 11. 200	5
Name and n	nailing address of the ISA	Authorized officer	
	European Patent Office, P.B. 5818 Patentlaan 2 NL - 2280 HV Rijswijk	·	
	Tel. (+31-70) 340-2040, Tx. 31 651 epo nl, Fax: (+31-70) 340-3016	Rigondaud, B	

International Application No PCT/IB2004/003907

	PCT/1B2004/003907
Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
WO 02/102711 A (KIHLBERG, TOR; LAANGSTROEM, BENGT) 27 December 2002 (2002-12-27) cited in the application claims 1,5,6	2
EP 0 282 703 A (USHIO ELECTRIC INC; USHIO DENKI) 21 September 1988 (1988-09-21) figure 1 column 4, line 27 - line 45	8,9
DIKSIC, MIRKO ET AL: "An on-line synthesis of "no-carrier-added" [11C]phosgene" INTERNATIONAL JOURNAL OF NUCLEAR MEDICINE AND BIOLOGY, 9(4), 283-5 CODEN: IJNMCI; ISSN: 0047-0740, 1982, XP008049737 the whole document	1-12
ROEDA D ET AL: "A U.VINDUCED ON-LINE SYNTHESIS OF 11C-PHOSGENE AND THE PREPARATION OF SOME OF ITS DERIVATIVES" INTERNATIONAL JOURNAL OF APPLIED RADIATION AND ISOTOPES, PERGAMON PRESS LTD. OXFORD, GB, vol. 32, 1981, pages 931-932, XP008049780 cited in the application the whole document	1-12
CROUZEL C ET AL: "11C-LABELED PHOSGENE: AN IMPROVED PROCEDURE AND SYNTHESIS DEVICE" INTERNATIONAL JOURNAL OF APPLIED RADIATION AND ISOTOPS, PERGAMON PRESS, NEW YORK, NY, US, vol. 34, no. 11, 1983, pages 1558-1559, XP001147857 ISSN: 0020-708X the whole document	1-12
WO 2005/042441 A (AMERSHAM PLC; KIHLBERG, TOR; ITSENKO, OLEKSIY; FERM, TOMMY; LANGSTROM,) 12 May 2005 (2005-05-12) claims 8-11	8-12
	WO 02/102711 A (KIHLBERG, TOR; LAANGSTROEM, BENGT) 27 December 2002 (2002-12-27) cited in the application claims 1,5,6  EP 0 282 703 A (USHIO ELECTRIC INC; USHIO DENKI) 21 September 1988 (1988-09-21) figure 1 column 4, line 27 - line 45  DIKSIC, MIRKO ET AL: "An on-line synthesis of "no-carrier-added" [11C]phosgene" INTERNATIONAL JOURNAL OF NUCLEAR MEDICINE AND BIOLOGY, 9(4), 283-5 CODEN: IJNMCI; ISSN: 0047-0740, 1982, XP008049737 the whole document  ROEDA D ET AL: "A U.VINDUCED ON-LINE SYNTHESIS OF 11C-PHOSGENE AND THE PREPARATION OF SOME OF ITS DERIVATIVES" INTERNATIONAL JOURNAL OF APPLIED RADIATION AND ISOTOPES, PERGAMON PRESS LTD. OXFORD, GB, vol. 32, 1981, pages 931-932, XP008049780 cited in the application the whole document  CROUZEL C ET AL: "11C-LABELED PHOSGENE: AN IMPROVED PROCEDURE AND SYNTHESIS DEVICE" INTERNATIONAL JOURNAL OF APPLIED RADIATION AND ISOTOPS, PERGAMON PRESS, NEW YORK, NY, US, vol. 34, no. 11, 1983, pages 1558-1559, XP001147857 ISSN: 0020-708X the whole document  WO 2005/042441 A (AMERSHAM PLC; KIHLBERG, TOR; ITSENKO, OLEKSIY; FERM, TOMMY; LANGSTROM,) 12 May 2005 (2005-05-12)

International application No. PCT/IB2004/003907

Box II Observations where certain claims were found unsearchable (Continuation of item 2 of first sheet)
This International Search Report has not been established in respect of certain claims under Article 17(2)(a) for the following reasons:
1. Claims Nos.: because they relate to subject matter not required to be searched by this Authority, namely:
Claims Nos.:     because they relate to parts of the International Application that do not comply with the prescribed requirements to such an extent that no meaningful International Search can be carried out, specifically:
3. Claims Nos.: because they are dependent claims and are not drafted in accordance with the second and third sentences of Rule 6.4(a).
Box III Observations where unity of invention is lacking (Continuation of item 3 of first sheet)
This International Searching Authority found multiple inventions in this international application, as follows:
see additional sheet
As all required additional search fees were timely paid by the applicant, this International Search Report covers all searchable claims.
2. As all searchable claims could be searched without effort justifying an additional fee, this Authority did not invite payment of any additional fee.
3. As only some of the required additional search fees were timely paid by the applicant, this International Search Report covers only those claims for which fees were paid, specifically claims Nos.:
No required additional search fees were timely paid by the applicant. Consequently, this International Search Report is restricted to the invention first mentioned in the claims; it is covered by claims Nos.:  1-12
Remark on Protest  The additional search fees were accompanied by the applicant's protest.  No protest accompanied the payment of additional search fees.

## FURTHER INFORMATION CONTINUED FROM PCT/ISA/ 210

This International Searching Authority found multiple (groups of) inventions in this international application, as follows:

1. claims: 1-12

The problem solved by the first invention is to provide:
- a process for the preparation of labeled phosgene using the reaction of carbon-isotope monoxide enriched gas-mixture with chlorine gas, this reaction being induced by UV radiation
- a system (apparatus) for performing this labeling synthesis

2. claims: 13-25

The problem solved by the second invention is to provide:
- a process for radio-labeling comprising reaction of carbon-isotope labelled phosgene with compounds respectively of formulae (I) and (II) to give a labelled compound of formula (III) (see claim 13)
- the carbon-isotope labeled compound so obtained

- a kit for positron emission tomography (PET) study comprising a carbon-isotope labelled compound of formula (III) (see claim 20)

In case of search of the second invention demonstrates that compound of formula (III) already exits, then a non-unity "a posteriori " will be raised between claims 13 and 20.

Information on patent family members

International Application No PCT/IB2004/003907

Patent document cited in search report		Publication date	Patent family member(s)		Publication date	
JP 10135233	Α	22-05-1998	NONE			
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